

Note: Two sets of requirements are included in this document. The second set of requirements applies only to bluetongue seropositive donor bulls.

## IMPORT HEALTH REQUIREMENTS OF CANADA FOR BOVINE SEMEN EXPORTED FROM THE UNITED STATES

### GENERAL INFORMATION

1. No person shall import bovine semen into Canada unless he/she does so under and in accordance with a permit issued by the Minister to ensure:
  - i. that the semen has been collected, processed and continuously stored in an approved animal semen production center;
  - ii. that the semen has been derived from donor animals whose health status is such that the risk of spread of animal diseases is eliminated;
  - iii. that the semen has been collected, processed, stored, and transported in accordance with procedures which preserve its health status; and
  - iv. that the semen is accompanied to Canada by an export health certificate of an official veterinarian of the United States in order to confirm that these obligations have been fulfilled. (see #3 below)
2. The permit referred to above shall remain in force for the period specified on the respective permit.
3. Bovine semen being imported into Canada must be accompanied by an official export health certificate in English or French issued by a full-time salaried veterinarian of the U.S. Department of Agriculture (USDA), or an official export health certificate issued by an authorized veterinarian and endorsed by an official USDA salaried veterinarian that clearly identifies:
  - i) The import permit number, the name of the exporting country and the name of the issuing authority;
  - ii) the identification of the donor animal including:
    - a) the species;
    - b) the breed and registered name;
    - c) the registration number;
    - d) the collection date and the number of straws; and,
    - e) the identification/markings of the straws;
  - iii) the origin of the semen including;

## CANADA/Bovine/Semen

- a) the name of the exporter;
  - b) the full address of the exporter; and,
  - c) the name of the approved semen production center where the semen was collected, if different from b) above; and,
- iv) the consignment description including;
- a) the total number of straws;
  - b) the serial number of the shipping container; and,
  - c) the number/markings of the tamperproof seal applied to the shipping container;
- v) the destination of the semen including the full name and address of the consignee.

**\*\*NOTE: The health certificate to be used is included in these requirements**

4. The semen must have been collected in the United States and exported directly to Canada from the United States of America without having been exported to any other country.
5. The semen must enter Canada through an inspection port in a container bearing an unbroken tamperproof seal approved by the USDA.
6. The semen must be stored within the sealed container in ampoules, straws or other receptacles that are marked in a permanent manner with:
  - i) the date of collection of the semen;
  - ii) the registered name and number of the animal from which the semen was collected; and
  - ii) the identity of the approved semen production center in which the semen was collected.
7. No person shall remove animal semen imported into Canada from an inspection port except:
  - i. in a container bearing an unbroken tamperproof seal approved by the government of the United States of America; and
  - ii. to an approved animal semen production center or other place approved by the Minister.

## CANADA/Bovine/Semen

8. No person shall import animal semen into Canada that is contaminated by bacteria, a virus or any other micro-organism capable of introducing disease in animals.
9. When the person importing the animal semen fails to comply with any of the conditions or the semen is found not to be from the animal source described in the health certificate accompanying the semen into Canada, an inspector may order the person having the possession, care, or custody of the animal semen imported into Canada to destroy it, return it to the country of export or deal with it in such a manner as the inspector may specify.

### 10. TEST REQUIREMENTS/MINI-STUD APPROVAL STANDARDS

See the attached health certificate for specific testing requirements. There are two separate certificates in this document - one for general use and one specifically for bluetongue seropositive bulls only.

Due to either enzootic bovine leucosis and/or bluetongue health status, a semen production center may decide to establish a mini-stud according to the following standards:

**DEFINITION:** A mini-stud is a semen production facility located at least 100 yards distance from other cattle, sheep, and goats in which semen donor animals are maintained for the purpose of producing semen for export to Canada.

**PURPOSE:** A mini-stud provides an alternative to those A.I. studs unable to qualify due to leucosis and/or bluetongue health status.

**SEMEN PROCESSING:** Semen collected in a mini-stud may be removed to an A.I. stud laboratory for processing and freezing at a time when no semen from other animals is being processed and, providing sanitary precautions are observed to prevent contamination of the semen by pathogenic microorganisms.

#### A) BLUETONGUE HEALTH STATUS OF MINI-STUD

- i. All animals entering an approved mini-stud must have proved negative to two ELISA tests for bluetongue, the latter of which was performed not less than 30 days or more than 90 days after the first test and within 30 days preceding the date of entry.
- ii. All animals resident in the mini-stud shall be subject to ELISA tests for bluetongue with negative results at intervals of not more than 90 days.

## CANADA/Bovine/Semen

- iii. The standard health conditions for animals maintained at approved animal semen production centers are applicable to animals maintained in the mini-stud, for export certification purposes.
- iv. Semen collected in an approved mini-stud for export to Canada must be stored in a separate storage tank.

### B) LEUKOSIS HEALTH STATUS OF MINI-STUD

- i. All animals entering an approved mini-stud must have proved negative to two agar gel immunodiffusion (AGID) or ELISA tests for bovine leukosis, the latter of which was performed not less than 30 days or more than 90 days after the first test and within 30 days preceding the date of entry.
- ii. All animals resident in the mini-stud shall be subject to AGID tests for leukosis with negative results at intervals of not more than 90 days.
- iii. The standard health conditions for animals maintained at approved animal semen production centers are applicable to animals maintained in the mini-stud, for export certification purposes.
- iv. Semen collected in an approved mini-stud for export to Canada must be stored in a separate storage tank.

### 11. EXPLANATORY NOTES:

- 1) Semen collected from bluetongue seropositive bulls is eligible for export to Canada under the conditions listed in the health certificate. The seropositive bulls must be resident for 90 days prior to semen collection in a collection center located in a state classified as "low-risk" for bluetongue. The semen for export must be collected between January 1 and March 31. The low risk states are: Alaska, Colorado, Connecticut, Delaware, Hawaii, Idaho, Indiana, Iowa, Kansas, Maine, Maryland, Massachusetts, Michigan, Montana, Minnesota, Nebraska, New Hampshire, New Jersey, New York, North Dakota, Ohio, Pennsylvania, Rhode Island, South Dakota, Utah, Vermont, Washington, West Virginia, Wisconsin and Wyoming.
- 2) In the case of pipeline semen collected prior to January 1, 1991 where the donor animal was not tested negative for bovine viral diarrhea by virus isolation on serum, the semen may be certified for export based on a negative virus culture of

## CANADA/Bovine/Semen

an aliquot of semen from the collection date to be exported.

- 3) In the case of pipeline semen collected prior to January 1, 1991 where the donor animal was resident in a semen production center of mixed serological status for enzootic bovine leucosis, the semen may be certified for export based on a negative post-collection serological test of the donor animal.

Health Certificate No. \_\_\_\_\_  
(Valid only if the USDA Veterinary Seal  
Appears over the Certificate No.)

ZOO SANITARY CERTIFICATE  
BOVINE SEMEN

Part A: IDENTIFICATION

1. Import permit number:
2. Species and Commodity: BOVINE SEMEN
3. Exporting Country: UNITED STATES OF AMERICA
4. Issuing Authority: UNITED STATES DEPARTMENT OF AGRICULTURE
5. Donor Identification:

Registered Name/ Registration No./ Breed/ No. of Straws/Collection Date/Straw Identification

_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

6. Consignment Description:

- a) Total number of straws:\_\_\_\_\_
- b) Serial number of the shipping tank:\_\_\_\_\_
- c) Number of official USDA seal on tank:\_\_\_\_\_

7. Origin of the Semen:

- a) Name of exporter:\_\_\_\_\_
- b) Address:\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- c) Name of approved semen production center where semen collected if different than above:\_\_\_\_\_  
\_\_\_\_\_

Health Certificate No. \_\_\_\_\_  
(Valid only if the USDA Veterinary Seal  
Appears over the Certificate No.)

8. Destination of the Semen:

- a) Name of Consignee: \_\_\_\_\_
- b) Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Part B: HEALTH INFORMATION

The undersigned accredited veterinarian hereby certifies the following:

1. The semen was collected from a donor animal resident in a semen production center which is under the supervision of an authorized center veterinarian;
2. Either prior to arrival or upon arrival at the semen production center, the donor animal had been subjected to testing for the following diseases with negative results:
  - i) brucellosis: serum agglutination test (less than 50 IU);
  - ii) tuberculosis: intradermal PPD bovine tuberculin
  - iii) leptospirosis: microagglutination lysis test. Negative is 50% or less agglutination at 1:100 for serotype L. hardjo and 50% or less agglutination at 1:200 (stable) for serotypes L. pomona, L. canicola, L. grippotyphosa and L. icterohaemorrhagiae;

In addition, for donors presented for entry after June 1, 1995, the following additional tests have been performed either prior to arrival or upon arrival at the semen production center.

- iv) enzootic bovine leucosis: agar gel immunodiffusion test or ELISA
- v) bluetongue: serum neutralization test or ELISA
- vi) paratuberculosis: complement fixation test or ELISA or culture

3. a) following a minimum thirty (30) day isolation period subsequent to arrival at the semen production center, the donor bull (and all in-contact animals) was subjected to testing for the following diseases with negative results:

- i) brucellosis: serum agglutination test (less than 50 IU) and either a complement fixation test (1:10) or ELISA;
- ii) tuberculosis: intradermal PPD bovine tuberculin

*\*NOTE: this second tuberculin test must be performed with a minimum interval of 60 days after any previous tuberculin test.*

- iii) enzootic bovine leucosis: agar gel immunodiffusion test or ELISA
- iv) bluetongue: serum neutralization test or ELISA
- v) paratuberculosis: complement fixation test or ELISA or culture
- vi) leptospirosis: microagglutination lysis test. Negative is 50% or less agglutination at 1:100 for serotype L. hardjo and 50% or less agglutination at 1:200 (stable) for serotypes L. pomona, L. canicola, L. grippotyphosa and L. icterohaemorrhagiae;

- b) during the minimum thirty (30) day isolation period subsequent to arrival at the semen production center, the donor bull has been subjected to testing for the following diseases with negative results:

- i) trichomoniasis: negative culture examinations of preputial material performed on samples collected on three occasions with an interval of seven days between each collection;
- ii) campylobacteriosis: negative culture examinations of preputial material or fluorescent antibody test on samples collected on three occasions with an interval of seven days between each collection;
- \*iii) bovine viral diarrhea negative virus isolation test (immunoperoxidase or immunofluorescence)



Health Certificate No. \_\_\_\_\_  
(Valid only if the USDA Veterinary Seal  
Appears over the Certificate No.)

*\*NOTE: the animal must have achieved at least 6 months of age prior to performance of the virus isolation test for BVD.*

4. The donor bull was inspected by a USDA-accredited veterinarian and found free from symptoms of communicable disease at the time of the collection of the semen. Furthermore, there has been no evidence of any communicable diseases to which bovine animals are susceptible at the semen production center for the thirty (30) days preceding collection of the semen through until its dispatch to Canada.
5. All of the animals resident at the semen production center (or ministud of an approved center) have been tested within the 12 months preceding collection of the semen to be exported to Canada and proved negative for brucellosis, tuberculosis, enzootic bovine leucosis, paratuberculosis, leptospirosis, trichomoniasis, and campylobacteriosis.
6. Either: \*i. all the animals resident at the semen production center (or mini-stud of an approved center) have been tested and confirmed negative for bluetongue within the 12 months preceding the collection of the semen to be exported to Canada;  
  
or \*ii. the donor animal is resident in a semen production center having a mixed serological status for bluetongue and was tested with negative results on an ELISA test for bluetongue performed a minimum of twenty-one (21) days following the last collection date of semen in the consignment destined to Canada.

\* Delete as appropriate

**\*\*NOTE: Do not use this certificate for bluetongue seropositive bulls.**

7. Subsequent to the pre-entry testing as prescribed in article 2 above and during the residency period in the semen collection center preceding the collection of semen through until the final collection of semen to be exported to Canada, the donor bull was not used for natural service;
8. The permanent markings on each ampoule or straw of semen are to include the date of collection, the registration number, the registered name of the donor bull and the identification of the semen production center where the semen was collected. (Where a date code is used, the collection date is to be shown on this health certificate as well.)
9. The semen was extended in a diluent to which antibiotics in either of the following

Health Certificate No. \_\_\_\_\_  
(Valid only if the USDA Veterinary Seal  
Appears over the Certificate No.)

combination had been added which achieves a final concentration in each ml of frozen semen as specified and, to the knowledge of the certifying veterinarian, the semen is free from contamination by pathogenic micro-organisms.

EITHER:

a) not less than	500 I.U. per ml streptomycin
	500 I.U. per ml penicillin
	150 u.g. per ml lincomycin
	300 u.g. per ml spectinomycin

OR:

b) not less than	50 u.g. per ml tylosin
	250 u.g. per ml gentamycin
	150 u.g. per ml lincomycin
	300 u.g. per ml spectinomycin

10. The semen had been continuously stored at an approved semen production center from the time of collection until the time of shipment.
11. The shipping container (liquid nitrogen tank) containing the semen has been sealed with a tamperproof seal approved by the USDA. The serial number of the container and the number or markings of the seal are to be shown on the health certificate.

## EXPLANATORY NOTES

1. In the case of pipeline semen collected prior to January 1, 1991, where the donor animal was not tested negative for bovine viral diarrhea by virus isolation on serum, the semen may be certified for export based on a negative virus culture of an aliquot of semen from the collection date to be exported.
2. In the case of pipeline semen collected prior to January 1, 1991, where the donor animal was resident in a semen production center of mixed serological status for enzootic bovine leukosis, the semen may be certified for export based on a negative post-collection serological test of the donor animal.

---

---

---

Type or Print - Name of Endorsing  
Federal Veterinarian

Health Certificate No. \_\_\_\_\_  
(Valid only if the USDA Veterinary Seal  
Appears over the Certificate No.)

Type or Print - Name and Address  
of Issuing Accredited Veterinarian

\_\_\_\_\_  
Signature - Accredited  
Veterinarian

(\_\_\_\_\_)\_\_\_\_\_  
Date Endorsed and Signature -  
Endorsing Federal Veterinarian  
(Valid only if USDA Veterinary  
Seal Appears over the Signature of the Endorsing  
Federal Veterinarian)

Health Certificate No. \_\_\_\_\_  
(Valid only if the USDA Veterinary Seal  
Appears over the Certificate No.)

ZOO SANITARY CERTIFICATE  
BOVINE SEMEN FROM BLUETONGUE SEROPOSITIVE DONORS

Part A: IDENTIFICATION

1. Import permit number:
2. Species and Commodity: BOVINE SEMEN
3. Exporting Country: UNITED STATES OF AMERICA
4. Issuing Authority: UNITED STATES DEPARTMENT OF AGRICULTURE

5. Donor Identification:

Registered Name   Registration No.   Breed   No. of Straws   Collection Date   Straw ident.

_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

6. Consignment Description:

- a) Total number of straws: \_\_\_\_\_
- b) Serial number of the shipping tank: \_\_\_\_\_
- c) Number of official USDA seal on tank: \_\_\_\_\_

7. Origin of the Semen:

- a) Name of exporter: \_\_\_\_\_
- b) Address: \_\_\_\_\_  
\_\_\_\_\_
- c) Name of approved semen production center where semen collected if different than above:  
\_\_\_\_\_  
\_\_\_\_\_

8. Destination of the Semen:

Health Certificate No. \_\_\_\_\_  
(Valid only if the USDA Veterinary Seal  
Appears over the Certificate No.)

a) Name of consignee: \_\_\_\_\_

b) Address: \_\_\_\_\_

---

Part B: HEALTH INFORMATION

The undersigned accredited veterinarian hereby certifies the following:

1.
  - i) The semen was collected from a donor animal resident in a semen production center located in a state classified as "low risk" for bluetongue and which is under the supervision of an authorized center veterinarian;
  - ii) Semen exported under the conditions herein described must have been collected between the dates of January 1 and March 31.
2. Either prior to arrival or upon arrival at the semen production center, the donor animal had been subjected to testing for the following diseases with negative results in accordance with the Certified Semen Services (CSS) standards of the National Association of Animal Breeders.
  - i) brucellosis: serum agglutination test (less than 50 IU);
  - ii) tuberculosis: intradermal PPD bovine tuberculin
  - iii) leptospirosis: microagglutination lysis test. Negative is 50% or less agglutination at 1:100 for serotype L. hardjo and 50% or less agglutination at 1:200 (stable) for serotypes L. pomona, L. canicola, L. grippotyphosa and L. icterohaemorrhagiae;

In addition, for donors presented for entry after June 1, 1995, the following additional tests have been performed either prior to arrival or upon arrival at the semen production center.

- iv) enzootic bovine leucosis: agar gel immunodiffusion test or ELISA
  - v) paratuberculosis: complement fixation test or ELISA or culture
3.
  - a) following a minimum thirty (30) day isolation period subsequent to arrival at the semen production center, the donor bull (and all in-contact animals) was subjected to testing for the following diseases with negative results:

Health Certificate No. \_\_\_\_\_  
(Valid only if the USDA Veterinary Seal  
Appears over the Certificate No.)

- i) brucellosis: serum agglutination test (less than 50 IU) and either a complement fixation test (1:10) or ELISA;
- ii) tuberculosis: intradermal PPD bovine tuberculin

\*NOTE: this second tuberculin test must be performed with a minimum interval of 60 days after any previous tuberculin test.

- iii) enzootic bovine leucosis: agar gel immunodiffusion test or ELISA
- iv) paratuberculosis: complement fixation test or ELISA or culture
- v) leptospirosis: microagglutination lysis test. Negative is 50% or less agglutination at 1:100 for serotype L. hardjo and 50% or less agglutination at 1:200 (stable) for serotypes L. pomona, L. canicola, L. grippotyphosa and L. icterohaemorrhagiae;

- b) during the minimum thirty (30) day isolation period subsequent to arrival at the semen production center, the donor bull has been subjected to testing for the following diseases with negative results:

- i) trichomoniasis: negative culture examinations of preputial material performed on samples collected on three occasions with an interval of seven days between each collection;
- ii) campylobacteriosis: negative culture examinations of preputial material or fluorescent antibody test on samples collected on three occasions with an interval of seven days between each collection;
- \*iii) bovine viral diarrhea negative virus isolation test (immunoperoxidase or immunofluorescence)

\*NOTE: the animal must have achieved at least 6 months of age prior to performance of the virus isolation test for BVD.

- 4. The donor bull was inspected by a USDA-accredited veterinarian and found free from symptoms of communicable disease at the time of the collection of the semen.

Health Certificate No. \_\_\_\_\_  
(Valid only if the USDA Veterinary Seal  
Appears over the Certificate No.)

Furthermore, there has been no evidence of any communicable diseases to which bovine animals are susceptible at the semen production center for the thirty (30) days preceding collection of the semen through until its dispatch to Canada.

5. All of the animals resident at the semen production center (or ministud of an approved center) have been tested within the 12 months preceding collection of the semen to be exported to Canada and proved negative for brucellosis, tuberculosis, enzootic bovine leucosis, paratuberculosis, leptospirosis, trichomoniasis, and campylobacteriosis.
6. The donor animal is resident in a semen production center having a mixed serological status for bluetongue and was resident in that semen production center, or another located in a "low risk" (1) state in regard to bluetongue, for a minimum period of ninety (90) days prior to collection of the semen to be exported to Canada.
7. Subsequent to the pre-entry testing as prescribed in article 2 above and during the residency period in the semen collection center preceding the collection of semen through until the final collection of semen to be exported to Canada, the donor bull was not used for natural service;
8. The permanent markings on each ampoule or straw of semen are to include the date of collection, the registration number, the registered name of the donor bull and the identification of the semen production center where the semen was collected. (Where a date code is used, the collection date is to be shown on this health certificate as well.)
9. The semen was extended in a diluent to which antibodies in either of the following combination had been added which achieves a final concentration in each ml of frozen semen as specified and, to the knowledge of the certifying veterinarian, the semen is free from contamination by pathogenic micro-organisms.

EITHER:

a) not less than	500 I.U. per ml streptomycin
	500 I.U. per ml penicillin
	150 u.g. per ml lincomycin
	300 u.g. per ml spectinomycin

OR:

b) not less than	50 u.g. per ml tylosin
	250 u.g. per ml gentamycin
	150 u.g. per ml lincomycin
	300 u.g. per ml spectinomycin

Health Certificate No. \_\_\_\_\_  
(Valid only if the USDA Veterinary Seal  
Appears over the Certificate No.)

10. The semen had been continuously stored at an approved semen production center from the time of collection until the time of shipment.
11. The shipping container (liquid nitrogen tank) containing the semen has been sealed with a tamperproof seal approved by the USDA. The serial number of the container and the number or markings of the seal are to be shown on the health certificate.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
Type or Print - Name and Address of  
Issuing Accredited Veterinarian

\_\_\_\_\_  
Type or Print - Name of Endorsing  
Federal Veterinarian

\_\_\_\_\_  
Signature - Accredited Veterinarian

(\_\_\_\_\_) \_\_\_\_\_  
\_\_\_\_\_  
Date Endorsed and Signature - Endorsing  
Federal Veterinarian  
(Valid only if USDA Veterinary Seal Appears  
over the Signature of the Endorsing Federal  
Veterinarian)